

IN THE CLAIMS

Please amend Claims 1-11 and 13-14 as follows; please cancel Claim 12; all claims are shown for convenience.

1. (Currently Amended) ~~An optical~~Optical module containing a support (T) in which a groove (VG) is introduced and an optical fibre (F) mounted in the groove (VG) characterized by a contact layer (CL) that is applied to the support (T) and comprises a plurality of strips extending essentially perpendicularly to the groove (VG) and that forms a mechanical joint with the fibre (F) when the fibre (F) is pressed into the groove (VG) in the form of a cold weld.

2. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which the strip-shaped contact layer (CL) is composed of aluminum ~~aluminium~~ (Al).

3. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which the fibre (F) is composed of SiO₂ or is coated with SiO₂.

4. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which between two and four strips having a width of about 200 µm each are provided.

5. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which a multiplicity of strips are provided that have a width of up to a few tens of micrometers.

6. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which the strips are each structured in turn to form a plurality of narrow ribs.

7. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which the groove (VG) is a V-groove.

8. (Currently Amended) ~~The optical~~Optical module according to claim 1, in which the last subsection of the groove (VG) in the direction of the support edge is free of the contact layer (CL).

9. (Currently Amended) ~~A support~~Support (T) for an optical module, containing a groove (VG) for fixing an optical fibre (F), characterized by a contact layer (CL) applied to the support (T) and composed of a plurality of strips extending essentially perpendicularly to the groove (VG) and that forms a mechanical joint with the fibre (F) when the fibre (F) is pressed into the groove (VG).

10. (Currently Amended) ~~A method~~Method of producing an optical module containing a support (T) into which a groove (VG) has been introduced and an optical fibre (F) mounted in the groove (VG), comprising the following steps:

introduction of the groove (VG) into the support (T);[[,]]

application of a contact layer (CL) that is composed of a plurality of strips extending essentially perpendicularly to the groove (VG) and that forms a mechanical joint with the fibre (F) when the fibre (F) is pressed into the groove (VG);[[,]] and

pressing of the optical fibre (F) into the groove (VG) in the form of cold welding.

11. (Currently Amended) ~~A method~~Method according to claim 10, in which the fibre (F) is stripped before being pressed in.

12. (Cancelled) Method according to claim 10, in which the pressing-in is carried out at a temperature of 200° to 400° C., preferably of 300° to 350° C.

13. (Currently Amended) ~~The method~~Method according to claim 10, in which the contact

layer (CL) is applied by sputtering and, in which process, a mask having slots is used for the contact-layer strips.

14. (Currently Amended) ~~The method~~Method according to claim 10, in which the contact layer (CL) is applied as a blanket and then structured by applying an etching procedure to form strips extending essentially perpendicularly to the groove (VG).